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Friday, September 22, 2006

Case Serial Number: 10/611649

From: Toby Port

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Phone: (571)272-2523

toby.port@uspto.gov

Search Notes

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13 345 SEA FILE=CAPLUS ABB=ON PLU=ON RUNDFELDT C?/AU OR KIETZMANN M?/AU OR HOPPMANN J?/AU OR BAUMER W?/AU OR BAEUMER W?/AU OR KUSS H?/AU OR HOFGEN N?/AU

L4 384518 SEA FILE=CAPLUS ABB=ON PLU=ON SKIN OR ?DERM?

L5 48 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND L4

L6 22 SEA FILE=CAPLUS ABB=ON PLU=ON TOPICAL AND L5

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L6 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:226501 CAPLUS

DOCUMENT NUMBER: 144:267237

TITLE: The phosphodiesterase 4 inhibitor AWD 12-281 is active

in a new guinea-pig model of allergic skin

inflammation predictive of human skin

penetration and suppresses both Th1 and Th2 cytokines

in mice

AUTHOR(S): Hoppmann, Joachim; Baeumer, Wolfgang

; Galetzka, Christin; Hoefgen, Norbert;

Kietzmann, Manfred; Rundfeldt, Chris

CORPORATE SOURCE: Department of Pharmacology, elbion AG, Radebeul,

D-01445, Germany

SOURCE: .Journal of Pharmacy and Pharmacology (2005), 57(12),

1609-1617

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Pharmaceutical Press

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Mar 2006

AB The selective phosphodiesterase 4 (PDE4) inhibitor AWD 12-281 is structurally optimized for topical administration. It has potent effects in models of lung inflammation if administered as a dry powder inhalation. It has also demonstrated its anti-inflammatory

property in a mouse model of cutaneous inflammation after topical administration. The aim of this study was to evaluate whether AWD 12-281 may be capable of penetrating human skin. Therefore a new guinea-pig model of allergic skin inflammation had to be developed. In ovalbumin-sensitized guinea-pigs, intracutaneous administration of ovalbumin results in a rapid development of allergic skin wheals. Topically administered AWD 12-281 was capable of reducing the development of wheals, indicating that this compound can penetrate the stratum corneum of guinea-pig skin as a predictor of human skin penetration. A secondary aim was the evaluation of a T cell subtype preference of AWD 12-281 since PDE4 inhibitors are said to preferentially inhibit Th2-type cytokines. Therefore, the effects of AWD 12-281 on a broad spectrum of Th1- and Th2-type cytokines were studied in tissue homogenates after allergen challenge in sensitized mice and in supernatants of anti CD3/anti-CD28-stimulated peripheral blood mononuclear cells (PBMCs). In both models, AWD 12-281 suppressed both T cell subtype cytokines indicating a broad spectrum activity of AWD 12-281.

A further issue was to determine the duration of action and the concentration-response

relation of the topical activity of AWD 12-281 using a model of acute local inflammation - the arachidonic-acid-induced mouse ear edema. The compound exhibited a dose-dependent effect with a minimally effective concentration of 0.3%; after repeated administration the minimally effective concentration was 0.03%. A single administration of a 3% solution resulted in significant suppression of inflammation even 48 h after treatment. In conclusion, our results indicate that AWD 12-281 is a very promising drug candidate not only for the treatment of lung inflammation using inhalative administration but also for the treatment of atopic dermatitis.

REFERENCE COUNT: 27. THERE AR

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:42181 CAPLUS

DOCUMENT NUMBER: 144:305549

TITLE: Influence of purinergic substances on proliferation of

murine keratinocytes and full-thickness skin

healing

AUTHOR(S): Braun, M.; Lelieur, K.; Kietzmann, M.

CORPORATE SOURCE: Department of Pharmacology, Toxicology and Pharmacy,

Hannover Foundation, University of Veterinary

Medicine, Hannover, Germany

SOURCE: Advances in Veterinary Dermatology (2005), 5, 203-209

CODEN: AVDEEA; ISSN: 1366-185X

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 17 Jan 2006

Purinoceptors are membrane-bound receptors for adenosine, purines and pyrimidines that are expressed in nearly all cell types throughout the organism. Previous studies have demonstrated that they are involved in the regulation of proliferation and differentiation of most target cells. As it is well-known that several purinoceptors are expressed in skin keratinocytes, we were interested in examining their involvement in wound healing. The expression of the receptors A2B, P2Y1, P2Y2 and P2Y6 was previously demonstrated in the murine keratinocyte cell line MSC-P5. Therefore, we performed proliferation assays with various purinoceptor agonists and antagonists in these cells. The proliferation was determined by incorporation of 5-bromo-2-deoxyuridine (BrdU). The purinoceptor agonists ATP (ATP), uridine triphosphate (UTP) and 5'-(N-ethyl)-carboxamidoadenosine (NECA) enhanced the cell growth of

MSC-P5 cells in vitro. The mitogenic effect of ATP and UTP was inhibited by the non-selective P2Y-receptor antagonist suramin, while the effect of NECA was inhibited by the selective A2B-receptor antagonist enprofylline. For in vivo studies, female NMRI mice were used. To impair the wound healing process, animals were treated once daily with dexamethasone. After a week of treatment, full-thickness wounds were set with biopsy punches in depilated back skin and the purinoceptor agonists and antagonists were administered once daily topically on the wound area. wound healing process was measured by determination of the wound area. Topical treatments with both NECA and UTP induced better wound healing in dexamethasone-treated mice, which was comparable to the control group without dexamethasone treatment. These studies confirm that pharmacol. actions via purinoceptors offer an intriguing possibility in the treatment of impaired wound healing. Nevertheless, further investigations are needed to fully elucidate the role of purinergic mechanisms involved in wound healing.

REFERENCE COUNT:

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:42174 CAPLUS

DOCUMENT NUMBER: 1

144:324423

TITLE:

Effects of the immunomodulatory drugs tacrolimus,

rapamycin and cilomilast on dendritic cell function in

a rodent model of allergic contact dermatitis
Baeumer, W.; Suelzle, B.; Weight, H.; Hecht,

M.; Kietzmann, M.

CORPORATE SOURCE:

Department of Pharmacology, Toxicology and Pharmacy, University of Veterinary Medicine Hannover Foundation,

Hannover, Germany

SOURCE:

Advances in Veterinary Dermatology (2005), 5, 89-96

CODEN: AVDEEA; ISSN: 1366-185X

PUBLISHER:

AUTHOR(S):

Blackwell Publishing Ltd.

DOCUMENT TYPE:

Journal English

LANGUAGE: Engli ED Entered STN: 17 Jan 2006

The in vitro and in vivo immunomodulatory effects of the AB phosphodiesterase-4 inhibitor cilomilast were compared to tacrolimus and rapamycin, immunosuppressive drugs for use in organ transplantation. Tacrolimus is also registered for treatment of human atopic dermatitis. In vitro, the effect of these agents on the mixed leukocyte reaction (dendritic cell-mediated T-cell activation) was tested. Cilomilast and tacrolimus, as well as rapamycin, were able to inhibit proliferation in a dose-dependent manner. In vivo, the inhibitory action of the immunomodulatory drugs was compared in the toluene-2,4-diisocyanate (TDI) - induced allergic inflammatory response. After topical administration, cilomilast and tacrolimus, but not rapamycin, inhibited the inflammatory response. Only combined topical and systemic administration of rapamycin caused a distinct inhibition of the allergic reaction. Cilomilast (20 mg/kg) and rapamycin (20 mg/kg) as well as tacrolimus (2.5 mg/kg) were administered i.p. at 16 and 0.5 h before challenge, and topically onto mouse ears (cilomilast 3%, rapamycin 1%, tacrolimus 0.5%) 2 h before challenge. All substances induced a significant inhibition of the ear swelling measured 16 h after TDI challenge, accompanied by a reduction of the draining auricular lymph node weight

and lymphocyte cell count. Corresponding to this, the d. of Langerhans cells in the epidermis was higher in cilomilast-, tacrolimus- and rapamycin-treated mice compared with vehicle-treated mice. Dendritic cell migration, as measured in a skin dendritic cell migration

assay on cultivated ears, was also significantly inhibited by all agents. THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 29 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:966451 CAPLUS

DOCUMENT NUMBER: 143:318705

Cilomilast, tacrolimus and rapamycin modulate TITLE:

dendritic cell function in the elicitation phase of .

100

allergic contact dermatitis

Baeumer, W.; Suelzle, B.; Weigt, H.; De AUTHOR (S):

Vries, V. C.; Hecht, M.; Tschernig, T.;

Kietzmann, M.

CORPORATE SOURCE: Departments of Pharmacology, Toxicology and Pharmacy,

University of Veterinary Medicine Hannover,

Foundation, Hannover, 30559, Germany

British Journal of Dermatology (2005), 153(1), 136-144 SOURCE:

CODEN: BJDEAZ; ISSN: 0007-0963

Blackwell Publishing Ltd. PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE: Entered STN: 05 Sep 2005 ED

Cilomilast and tacrolimus as well as rapamycin are potential drugs for the ABtreatment of allergic skin diseases like atopic

dermatitis and allergic contact dermatitis. To compare the in vitro and in vivo immunomodulatory effects of the phosphodiesterase 4 inhibitor cilomilast with those of tacrolimus and rapamycin. The in vitro action of cilomilast, tacrolimus and rapamycin were tested in a mixed leukocyte reaction (MLR). In vivo, the inhibitory action of the immunomodulatory drugs was compared in the toluene-2,4-diisocyanate (TDI) - induced allergic inflammatory response with particular focus on dendritic cell (DC) function. Cilomilast, tacrolimus and rapamycin were all able to inhibit DC-mediated T-cell activation in a MLR. But it was demonstrated for cilomilast that the target cells are T cells rather than DC. In vivo, a combination of systemic and topical administration of each of these three substances significantly inhibited

swelling in the murine ear 16 h after TDI challenge. There was also a reduction in the weight of the draining auricular lymph node, in lymphocyte

cell

count, and in the number of emigrated DC. The d. of Langerhans cells in the epidermis was correspondingly higher in mice treated with cilomilast, tacrolimus and rapamycin than in those treated with vehicle. All three substances were found to inhibit DC migration ex vivo in a skin DC migration assay performed on ear tissue after TDI challenge. DC migration into the draining lymph node also takes place in the elicitation phase of allergic contact dermatitis and this migration can be influenced by tacrolimus and rapamycin, and, to a lesser extent, by cilomilast.

REFERENCE COUNT: THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS 33 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

2004:60309 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:105273

TITLE: Topical treatment of skin diseases Rundfeldt, Chris; Kietzmann, Manfred INVENTOR(S):

; Hoppmann, Joachim; Baeumer,

Wolfgang; Kuss, Hildegard; Hoefgen,

Norbert

Elbion AG, Germany PATENT ASSIGNEE(S):

ds1001.1045 Rancamure

SOURCE: PCT Int. Appl., 48 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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INFO::	WO 2004006920 A1 20040122 WO 2003-EP7514 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, PG, PH, PL, PT, RO; RU, SC, SD, SE, SG, SK, SL, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, CA, 2492093 AU 2003254332 A1 20040122 CA 2003-2492093 AU 2003254332 A1 20040226 BR 2003-12696 EP 1531818 A1 20050426 BR 2003-12696 EP 1531818 A1 20050525 EP 2003-763810 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, CN 1681500 A 200500718 NO 2005000718 A 20050421 NO 2005-718 RITY APPLN. INFO.: US 2002-395221P	WO 2004006920 A1 20040122 WO 2003-EP7514 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, PG, PH, PL, PT, RO; RU, SC, SD, SE, SG, SK, SL, SY, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, CA 2492093 AA 20040122 CA 2003-2492093 AU 2003254332 A1 20040226 US 2003-611649 CA 2492093 AA 20040122 CA 2003-254332 BR 2003012696 A 20050426 BR 2003-12696 EP 1531818 A1 20050525 EP 2003-763810 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, CN 1681500 A 20051012 CN 2003-821520 JP 2005537262 T2 20051208 JP 2004-520586 ZA 2005000108 A 20050223 ZA 2005-108 NO 2005000718 A 20050401 NO 2005-718 RITY APPLN. INFO::	WO 2004006920 A1 20040122 WO 2003-EP7514 2 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, US 2004038958 A1 20040226 US 2003-611649 2 CA 2492093 AA 20040122 CA 2003-2492093 2 AU 2003254332 A1 20040202 AU 2003-254332 2 BR 2003012696 A 20050426 BR 2003-12696 2 EP 1531818 A1 20050525 EP 2003-763810 2 EP 1531818 A1 20050525 EP 2003-763810 2 CN 1681500 A 20051012 CN 2003-821520 2 JP 2005537262 T2 20051208 JP 2004-520586 2 ZA 2005000108 A 2005023 ZA 2005-108 2 ZA 2005000108 A 20050401 NO 2005-718 22 RRITY APPLN. INFO:: US 2002-395221P P 2	WO 2004006920 A1 20040122 WO 2003-EP7514 20030 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, US 2004038958 A1 20040122 CA 2003-611649 20030 CA 2492093 AA 20040122 CA 2003-2492093 20030 AU 2003254332 A1 20040202 AU 2003-254332 20030 BR 2003012696 A 20050426 BR 2003-12696 20030 BR 2003012696 A 20050426 BR 2003-12696 20030 BR 2003012696 A 20050426 BR 2003-763810 20030 CR 2492093 AA 20050426 BR 2003-763810 20030 CR 2492093 AA 20050426 BR 2003-763810 20030 CR 2492093 A 20050525 EP 2003-763810 20030 CR 2492093 AA 20050426 BR 2003-12696 20030 CR 2492093 AA 20050426 BR 2003-12696 20030 CR 25030012696 A 20050525 EP 2003-763810 20030 CR 26030012696 A 20050525 EP 2003-763810 20030 CR 27 2005537262 T2 20051208 JP 2004-520586 20030 CR 28 2005000108 A 20050421 NO 2005-718 20050

OTHER SOURCE(S): MARPAT 140:105273

ED Entered STN: 26 Jan 2004

AB The present invention relates to a method for the treatment of an inflammatory and/or allergic skin disease comprising topically administering a substituted hydroxy indole which is a phosphodiesterase 4 inhibitor. Examples are provided of the topical effectiveness of AWD 12-281 and cilomilast in dermal immunol. inflammation.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:924091 CAPLUS

DOCUMENT NUMBER: 140:157041

TITLE: Effects of cilomilast on dendritic cell function in

contact sensitivity and dendritic cell migration

through skin

AUTHOR(S): Baumer, Wolfgang; Tschernig, Thomas; Sulzle,

Boris; Seegers, Ulrike; Luhrmann, Anke;

Kietzmann, Manfred

CORPORATE SOURCE: Toxicology and Pharmacy, Department of Pharmacology,

School of Veterinary Medicine, Hannover, D-30559,

Germany

SOURCE: European Journal of Pharmacology (2003), 481(2-3),

271-279

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English ED Entered STN: 26 Nov 2003

The phosphodiesterase 4 inhibitor cilomilast demonstrated strong ABinhibitory effects in a model of allergic contact dermatitis. In this study, we examined whether this inhibitory effect is at least partly due to modulation of dendritic cell function. Bone marrow-derived, dendritic cells were pulsed with the sensitizer toluene-2,4-diisocyanate and administered s.c. to nonsensitized mice. Five days later, the mice were challenged with a low dose of toluene-2,4-diisocyanate onto the ears. In contrast to sham-treated mice, mice obtaining toluene-2,4-diisocyanate pulsed dendritic cells showed a significant increase in ear swelling. This swelling was not influenced when the dendritic cells were pre-incubated with cilomilast. When cilomilast was administered systemically simultaneously to the application of toluene-2,4-diisocyanate pulsed cells, there was an impaired allergic reaction provoked 5 days later. Addnl., a topical treatment with cilomilast resulted in a significant inhibition of skin dendritic cell migration. These results indicate that the antigen-presenting function of dendritic cells is not influenced by cilomilast but the dendritic cell T cell interaction and dendritic cell migration is modulated.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:695438 CAPLUS

DOCUMENT NUMBER: 140:87294

TITLE: AWD 12-281, a highly selective phosphodiesterase 4

inhibitor, is effective in the prevention and treatment of inflammatory reactions in a model of

allergic dermatitis

AUTHOR(S): Baeumer, Wolfgang; Gorr, Gilbert;

Hoppmann, Joachim; Ehinger, Andreas M.;

Rundfeldt, Chris; Kietzmann, Manfred

CORPORATE SOURCE: Department of Pharmacology, Toxicology and Pharmacy,

School of Veterinary Medicine, Hannover, D-30559,

Germany

SOURCE: Journal of Pharmacy and Pharmacology (2003), 55(8),

1107-1114

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Pharmaceutical Press

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 05 Sep 2003

AWD 12-281 (N-(3,5-dichloro-4-pyridinyl)-2-[1-(4-fluorobenzyl)-5-hydroxy-AB1H-indol-3-yl]-2-oxoacetamide), a phosphodiesterase 4 inhibitor, which is optimized for topical administration, was tested in a model of allergic dermatitis in mice. To obtain an allergic dermatitis, BALB/c mice were sensitized to toluene-2,4diisocyanate (TDI). The allergic reaction was challenged by topical administration of TDI onto the mice ears. AWD 12-281 was tested for its anti-inflammatory potential by oral, i.p. and topical administration. The phosphodiesterase 4 inhibitor, cilomilast (SB 207499), and/or the corticosteroid, diflorasone diacetate, were used as reference compds. Given orally and i.p. 2 h before as well as 5 and 24 h after TDI challenge, AWD 12-281 showed no, or only a transient inhibition of the allergen-induced ear swelling, whereas cilomilast significantly inhibited this ear swelling. Applied topically onto the ears before TDI challenge, AWD 12-281, cilomilast and diflorasone diacetate caused total inhibition of ear swelling 24 h after challenge, confirmed by a decrease of the pro-inflammatory cytokines interleukin-4,

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interleukin-6 and macrophage inhibitory protein-2. Administered topically after TDI challenge as therapeutic intervention, AWD 12-281 and diflorasone diacetate caused significant inhibition of ear swelling; cilomilast failed to do so. These results indicate that topically administered AWD 12-281 may be potent in the prevention and treatment of allergic/inflammatory skin diseases.

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS 28 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:495906 CAPLUS

DOCUMENT NUMBER:

138:117605

TITLE:

Effects of the phosphodiesterase 4 inhibitors SB

207499 and AWD 12-281 on the inflammatory reaction in

a model of allergic dermatitis

AUTHOR (S):

Baumer, Wolfgang; Gorr, Gilbert;

Hoppmann, Joachim; Ehinger, Andreas M.;

Ehinger, Britt; Kietzmann, Manfred

CORPORATE SOURCE:

Toxicology and Pharmacy, Department of Pharmacology, School of Veterinary Medicine, Hanover, 30559, Germany

European Journal of Pharmacology (2002), 446(1-3), 195-200

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER:

SOURCE:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal English

LANGUAGE:

EDEntered STN: 02 Jul 2002 The inhibitors of the phosphodiesterase 4, SB 207499 (cilomilast, ABc-4-cyano-4-(3-cyclopentyloxy-4-methoxyphenyl)-r-L-cyclohexane carboxylic acid) and AWD 12-281 (N-(3,5-dichloropyrid-4-yl)-[1-(4-fluorobenzyl)-5hydroxyindole-3-yl]glyoxylic acid amide) were tested in a model of allergic dermatitis in mice. To obtain an allergic dermatitis, BALB/c mice were sensitized to toluene-2,4diisocyanate. The allergic reaction was challenged by topical administration of toluene-2,4-diisocyanate onto the mice ears. Before challenge, two groups of mice were treated topically (ear skin) with SB 207499 or AWD 12-281. There was a significant ear swelling in toluene-2,4-diisocyanate-challenged mice ears 4, 8, 16, 24 and 48 h after challenge. SB 207499 and AWD 12-281 inhibited this swelling significantly 8, 16, 24 and 48 h after the challenge. For biochem. parameters and histol., ears were sampled from mice sacrificed 4, 8 and 16 h after the challenge. In homogenized tissue, SB 207499 and AWD 12-281 inhibited significantly the secretion of interleukin 1B induced by toluene-2,4-diisocyanate 4 and 8 h after challenge. The cell influx (granulocytes) observed in the toluene-2,4-diisocyanate-challenged mice 8 and

16 h after challenge was nearly abolished by AWD 12-281 and SB 204799. THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 30 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2006 ACS on STN L6 ANSWER 9 OF 22

ACCESSION NUMBER:

2001:401655 CAPLUS

DOCUMENT NUMBER: TITLE:

Effects of steroidal and non-steroidal antiphlogistic

drugs on eicosanoid synthesis in irritated skin: studies with the isolated perfused

bovine udder

135:174923

AUTHOR(S):

Baumer, Wolfgang; Kietzmann, Manfred

CORPORATE SOURCE:

Department of Pharmacology, Toxicology and Pharmacy,

School of Veterinary Medicine, Hannover, 30559,

Germany

usin611606 - Kantamneni Kantamneni

SOURCE: Journal of Pharmacy and Pharmacology (2001), 53(5),

743-747

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Pharmaceutical Press

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 05 Jun 2001

Using the isolated perfused bovine udder as an in-vitro model of AB skin inflammation, the effects of topically administered arachidonic acid on prostaglandin and leukotriene synthesis have been shown previously. In this study, the effects of indometacin (indomethacin) and clobetasol-17-propionate (administered topically) as well as flunixin meglumine and meloxicam (administered via the perfusion fluid) have been studied. Compared with controls, arachidonic acid caused a significant increase in the dermal prostaglandin E2 (PGE2) and peptidoleukotriene (LTC4/D4/E4) concentration Topical treatment with indometacin (1.6 mg cm-2) and clobetasol-17-propionate (90 μg cm-2), which were administered 60 min before arachidonic acid administration, inhibited the inflammatory reaction. Flunixin meglumine (1 μ g mL-1 perfusion fluid) was administered 30 min after and meloxicam (3 µg mL-1 perfusion fluid) was administered 60 min before arachidonic acid application. Three hours after arachidonic acid administration, a significant inhibition of PGE2 synthesis was induced by flunixin. In contrast, meloxicam showed only a slight effect. The effect of flunixin was comparable with in-vivo results. It is known from animal studies that anti-inflammatory effects of meloxicam are obvious within up to 6 h after treatment. Therefore, the incomplete effect of meloxicam may be explained pharmacokinetically. In conclusion, the described in-vitro model seems to be suitable for studies of pharmacol. effects on eicosanoid synthesis in the skin.

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:550078 CAPLUS

DOCUMENT NUMBER:

134:25090

TITLE:

AUTHOR(S):

Application of deuterated benzoyl peroxide in an in

vitro model of percutaneous absorption and dermal metabolism of chemical substances Blume, B.; Kietzmann, M.; Moder, M.; Kranke,

P.; Wahren, M.

CORPORATE SOURCE: Faculty of Veterinary Medicine, Institute of

Pharmacology, Pharmacy and Toxicology, University of

Leipzig, Leipzig, D-04103, Germany

SOURCE: Synthesis and Applications of Isotopically Labelled

Compounds 1997, Proceedings of the International Symposium, 6th, Philadelphia, PA, United States, Sept.

14-18, 1997 (1998), Meeting Date 1997, 597-600.

Editor(s): Heys, J. Richard; Melillo, David G. John

Wiley & Sons Ltd.: Chichester, UK.

CODEN: 69AGFQ Conference

DOCUMENT TYPE: Conferent LANGUAGE: English ED Entered STN: 11 Aug 2000

AB The percutaneous absorption and metabolism of deuterated benzoyl peroxide was investigated following topical administration on isolated

perfused bovine udder. Benzoyl peroxide-d10 was detected in the perfusate 30-60 min after application. Its metabolite benzoic acid-d5 was detected

in the perfusate at much lower concentration for a longer time.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:280377 CAPLUS

TITLE: Deuterium labelling in investigations of

transdermal resorption and intradermal

metabolism of chemical compounds

AUTHOR(S): Kietzmann, M.; Blume, B.; Moder, M.; Kranke,

P.; Wahren, M.

CORPORATE SOURCE: Faculty of Veterinary Medicine, Institute of

Pharmacology, Pharmacy and Toxicology, University of

Leipzig, Leipzig, Germany

SOURCE: Isotopes in Environmental and Health Studies (1998),

34(1-2), 157

CODEN: IEHSF8; ISSN: 1025-6016 Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 01 May 2000

AB Isolated perfused udders from slaughtered cows have been introduced as a

new in vitro model for transdermal penetration and absorption

studies [1]. It allows to determine the consequences of **skin** contact of chemical substances without sacrificing laboratory animals. Benzoyl peroxide 1

is a component of some drug formulations for topical application. Administration of 500mg 1 on an udder skin area of 100cm2 resulted in absorption and metabolism While unchanged I could be detected in the skin tissue, only the metabolite benzoic acid 2 was found in the perfusate (heparinized tyrode solution) in expts. without labeling [1]. The use of 1-d10 instead of 1 under identical conditions resulted in a significant lower detection limit (GC-MS, selected ion monitoring mode, internal stds. unlabeled 1 and 2). In perfusate samples taken between 30 and 105 min after application small amts. of 1-d10 were detected with a rather sharp maximum of 10 ng/g in the 45 min sample. The concentration of the metabolite 2-d5 in the perfusate rose gradually from 15

min.

PUBLISHER:

to a flat maximum at about 105 min. and was tell detectable 150 min. after application of 1-d10. Other metabolites were not detected, a special search was made for deuterated hydroxybenzoic acids. We wish to point out, that this reversal of a standard anal. method (quantification of mass-spectrometric trace detns. by use of labeled compds. as internal stds.) should be of advantage in similar problems, if the chemical substance or their metabolites are either ubiquitous or physiol.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:221539 CAPLUS

DOCUMENT NUMBER: 133:450

TITLE: Effects of the phosphodiesterase 4 inhibitor RPR 73401

in a model of immunological inflammation Ehinger, A. M.: Gorr, G.: Hoppmann, J.:

AUTHOR(S): Ehinger, A. M.; Gorr, G.; Hoppmann, J.; Telser, E.; Ehinger, B.; Kietzmann, M.

CORPORATE SOURCE: Institute of Pharmacology, Toxicol. and Pharm., School

of Veterinary Medicine, Hannover, 30559, Germany

SOURCE: European Journal of Pharmacology (2000), 392(1/2),

93-99

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

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LANGUAGE: English ED Entered STN: 06 Apr 2000

The study was performed to investigate effects of the phosphodiesterase 4 AB inhibitor RPR 73401 [N-(3,5-dichloropyrid-4-yl)-3-cyclopentyl-oxy-4methoxybenzamid] on an allergic skin reaction. To simulate an immunol. inflammation, BALB/c mice were sensitized to dinitrochlorobenzene or toluene diisocyanate. At first, the abdominal skin was shaved and 50 µl Freund's adjuvant were injected intracutaneously once. Then, the horny layer was removed by adhesive tape stripping and 100 µl 0.5% dinitrochlorobenzene or 5% toluene diisocyanate were administered on the epidermis for 4 days. After repeated local treatment of the ear skin with 20 µl 3% RPR 73401 or i.p. administration of 1 and 5 mg/kg RPR 73401, 20 µl 1% dinitrochlorobenzene or 0.5% toluene diisocyanate were given topically as a challenge. The vehicle controls showed a high increase in ear thickness over 48 h after challenge, whereas RPR 73401 administered on either route reduced this increase significantly. Nevertheless after topical administration, RPR 73401 had a longer lasting effect. These and other results may point to an indication for RPR 73401 in immunol. dermatitis.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:6444 CAPLUS

DOCUMENT NUMBER: 132:74708

TITLE: Application of deuterated compounds for investigations

of percutaneous absorption of chemical substances

AUTHOR(S): Kietzmann, M.; Kranke, P.; Moder, M.;

Schrader, S.; Wahren, Manfred

CORPORATE SOURCE: Institute Pharmacology Toxicology Pharmacy, School

Veterinary Medicine, Hannover, Germany

SOURCE: Isotopes in Environmental and Health Studies (1999), 35(1-2), 127-134

CODEN: IEHSF8; ISSN: 1025-6016

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 04 Jan 2000

The percutaneous absorption of the xenoestrogen 2,2-bis-(4-hydroxyphenyl)-AB propane (bisphenol A) was studied and compared with results on dibenzoyl peroxide, a component of drug formulations for topical application. Isolated perfused bovine udders from slaughtered cows were employed as models for human skin. The deuterium labeled compds. bisphenol A-d14 and dibenzoyl peroxide-d10 were applied to enhance the reliability of GC-MS trace detns. by use of reverse isotope dilution anal. Bisphenol A-d14 was found in perfusate and milk equivalent samples obtained between 60 and 300 min after topical application with maximum concns. between 120 and 180 min. Bisphenol A-d14 was enriched in the milk samples by a factor of about 300 compared with the perfusate. results confirm a possible penetration of bisphenol A from the environment through the skin into the capillary system. Dibenzoyl peroxide studied on the same model system penetrated faster than bisphenol A by a factor of about 3.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:603393 CAPLUS

DOCUMENT NUMBER: 129:213553

TITLE: The isolated perfused bovine udder. A model for

. 41 L - mm -Kantamneni us10611649

> detection of UV-induced skin damage AUTHOR (S):

Koehler, Petra; Borchert, Stefan; Petersen,

Rolf-Dieter; Kietzmann, Manfred; Blume,

Bettina; Baeumer, Wolfgang; Itzel-Kietzmann,

Verena-Maria

Chemisches Lab. Dr. Kurt Richter G.m.b.H., Berlin, CORPORATE SOURCE:

D-12159, Germany

SOFW Journal (1998), 124(10), 624,626,628-629 SOURCE:

CODEN: SOFJEE; ISSN: 0942-7694

Verlag fuer Chemische Industrie H. Ziolkowsky PUBLISHER:

Journal; General Review DOCUMENT TYPE:

English LANGUAGE: Entered STN: 23 Sep 1998 ED

The biol. activity was demonstrated of a cosmetic active in a finished ABformulation using the isolated perfused bovine udder. To ensure rapid penetration of the test substances through the stratum corneum, the lipid

barrier of the udder skin was damaged by repeated topical application of aceton, test samples were applied, and the skin was UV-irradiated. The DNA newly synthesized during repair was detected by determination of the incorporation rate of bromodeoxyuridine (BrdU), directly indicating the amount of DNA repair. The effect on DNA repair after UV irradiation produced by test sample RP-1 (containing lysate of Bifido bacteria as active principle, available as Repair Complex CLR) was assessed on udders. The rates of BrdU incorporation were determined as optical d. (OD 410 nm) values as a function of exposure time. The test sample led to an increased rate of BrdU incorporation after UV irradiation of the skin. Maximum DNA repair was reached after an irradiation time of 3 min. The intact living skin of the udder allowed to observe effects in the field of skin protection that otherwise were only pursued in vivo (using invasive methods). A review with 13 refs., describing isolated perfused bovine udder as a model for investigation of

transdermal resorption of substances, UV-induced skin damage, and proof of DNA repair activity, was added.

ANSWER 15 OF 22 L6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:311875 CAPLUS

DOCUMENT NUMBER: 127:39606

TITLE: Percutaneous absorption of betamethasone from

different formulations using the isolated perfused

bovine udder

Kietzmann, M.; Blume, B. AUTHOR(S):

CORPORATE SOURCE: Fac. Veterinary Med., Inst. Pharmacology, Pharmacy and

Toxicology, Univ. Leipzig, Germany

In Vitro Toxicology (1997), 10(1), 11-15 SOURCE:

CODEN: IVTOE4; ISSN: 0888-319X

PUBLISHER: Liebert Journal DOCUMENT TYPE: LANGUAGE: English EDEntered STN: 16 May 1997

Using udders from slaughtered cows, the percutaneous absorption of ABbetamethasone-17,21-dipropionate was tested. The organ was perfused with gassed Tyrode solution for up to 6 h. A region of udder skin (100 cm2) was treated topically with betamethasone-17,21-dipropionate as an ingredient of solution, cream, and ointment (Diprosone) and as ingredient of gel and ointment (Diprosis, with propylene glycol as an addnl. ingredient). Betamethasone-17,21-dipropionate (Diprosone) was also administered on skin areas treated with acetone to disorganize the horny layer. The concentration of betamethasone-17,21-dipropionate was measured in perfusate fractions by HPLC. A maximum absorption rate of betamethasone-17,21-dipropionate was found after administration of the

ointment with propylne glycol (Diprosis ointment). The treatment with acetone caused an increase of the absorption rate after application of betamethasone-17,21-dipropionate as ointment, while no increase was measurable after administration of the solution. The isolated perfused bovine udder is an in vitro model, which maintains bovine udder skin with an isolated vasculature in a viable state. Using this in vitro model, it is possible to compare the dermal penetration and absorption of substances after topical administration of different drug formulations.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:381767 CAPLUS

DOCUMENT NUMBER: 122:142309

TITLE: Absorption of isosorbide dinitrate after

administration as spray, ointment and microemulsion patch. An in-vitro study using the isolated perfused

bovine udder

AUTHOR(S): Kietzmann, M.; Wenzel, B.; Loescher, W.;

Lubach, D.; Mueller, B. W.; Blume, H.

CORPORATE SOURCE: Department Pharmacology, Toxicology and Pharmacy,

School Veterinary Medicine, Hannover, Germany

SOURCE: Journal of Pharmacy and Pharmacology (1995), 47(1),

22-5

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Royal Pharmaceutical Society of Great Britain

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 01 Mar 1995

The isolated perfused bovine udder is an in-vitro model, which maintains. ABbovine udder skin with an isolated vasculature in a viable stage. Using this in-vitro model, the percutaneous absorption and metabolism of isosorbide dinitrate (ISDN) was studied. The organ was perfused with gassed Tyrode solution for up to 6 h. A region of udder skin was treated topically with 60 mg ISDN as a spray, 60 mg ISDN as an ointment and with 120 mg ISDN as a microemulsion patch of 30 cm2. Spray and ointment were applied onto a skin region of 400 cm2. The concns. of ISDN and its metabolites isosorbide-2-mononitrate and isosorbide-5-mononitrate were measured in perfusate fractions by capillary column gas chromatog. with electron capture detection. Following topical administration of the different formulation, ISDN as well as its metabolites were detected in the perfusate fractions, thus demonstrating that ISDN is metabolized by the udder skin in-vitro. A maximum amount of ISDN was absorbed after administration as a spray followed by ointment and microemulsion (5, 2.5 and 1.8 μ mol total organic nitrate, resp.). In contrast, the ISDN flux per cm2 skin was significantly higher after administration of the microemulsion (64.4) pmol cm-2 min-1 for the microemulsion compared with 21.9 and 10.2 pmol cm-2 min-1 for spray and ointment).

L6 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:207830 CAPLUS

DOCUMENT NUMBER: 120:207830

TITLE: The isolated perfused bovine udder as an in vitro

model of percutaneous drug absorption. Skin viability and percutaneous absorption of

dexamethasone, benzoyl peroxide, and etofenamate

AUTHOR(S): Kietzmann, Manfred; Loescher, Wolfgang;

Arens, Dorothee; Maass, Petra; Lubach, Dietrich

us10611649 Kantamneni

CORPORATE SOURCE: Dep. Pharmacol., Toxicol. Pharm., Sch. Vet. Med.,

Hannover, D-3000/71, Germany

SOURCE: Journal of Pharmacological and Toxicological Methods

(1993), 30(2), 75-84

CODEN: JPTMEZ; ISSN: 1056-8719

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 30 Apr 1994

udder

Using udders from slaughtered cows as a new in vitro model of percutaneous drug absorption, the tissue viability and the percutaneous absorption of dexamethasone, benzoyl peroxide, and etofenamate were studied. The organ was perfused with gassed tyrode solution for ≤6 h. As shown by measurement of glucose consumption, lactate production, lactate dehydrogenase activity, and pH in the perfusate, the tissue was viable over a 6-h period. This was confirmed by a histol. examination Determination of the

skin-fold thickness demonstrated that no edema developed within
the perfusion period. A maximum skin penetration of dexamethasone
was found after administration of dexamethasone dissolved in acetone with
DMSO, followed by ointment with salicylic acid, ointment without salicylic
acid, and acetone solution Expts. with benzoyl peroxide and etofenamate
demonstrated that the perfused udder skin was capable of
metabolizing drugs in vitro. In conclusion, the isolated perfused bovine
udder is a new in vitro model, which maintains bovine udder skin
with an isolated vasculature in a viable state. Using this in vitro
model, the authors note it is possible to compare the dermal
penetration, metabolism, and absorption of substances after topical
administration of different drug formulations.

L6 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:573471 CAPLUS

DOCUMENT NUMBER: 119:173471

TITLE: The use of material from slaughtered animals for drug

testing. Suitability of the bovine udder for studies

of **dermal** absorption

AUTHOR(S): Kietzmann, M.; Loescher, W.

CORPORATE SOURCE: Inst. Pharmakol. Toxikol. Pharm., Tieraerztl. Hochsch.

Hannover, Hannover, W-3000/71, Germany

SOURCE: DTW, Deutsche Tieraerztliche Wochenschrift (1993),

100(2), 54-7

CODEN: DDTWDG; ISSN: 0341-6593

DOCUMENT TYPE: Journal LANGUAGE: German ED Entered STN: 30 Oct 1993

The suitability of the isolated perfused cows' udder for the testing of transdermal drug formulations is illustrated with reference to the authors' previously published work. Data are thus given from studies with dexamethasone, benzoyl peroxide, and isosorbide dinitrate showing the time-dependence of percutaneous absorption and demonstrating that the monitoring of the metabolism of an applied drug is indeed possible with this system.

L6 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:52630 CAPLUS

DOCUMENT NUMBER: 118:52630

TITLE: Studies on the percutaneous absorption of

dexamethasone using a new in vitro model, the isolated

perfused bovine udder

AUTHOR(S): Kietzmann, M.; Arens, D.; Loescher, W.;

Lubach, D.

10611649نية، ···Kantamneni T LLC

Dep. Pharmacol., Toxicol. Pharm., Sch. Vet. Med., CORPORATE SOURCE:

Hannover, D-3000/71, Germany

Predict. Percutaneous Penetration (1991), 519-26. SOURCE:

Editor(s): Scott, R. C. IBC Tech. Serv.: London, UK.

CODEN: 58EGAN

Conference DOCUMENT TYPE: English LANGUAGE: Entered STN: 16 Feb 1993 ED

Using the isolated perfused bovine udder as an in vitro model, the AB percutaneous absorption of dexamethasone was studied. A region of udder skin (100 cm2) was treated topically with 8 mg dexamethasone (ointment, ointment with addition of 0.5% salicylic acid, solution in acetone, solution in acetone with addition of 10% DMSO). Thereafter, the perfusate was collected and the concentration of dexamethasone in perfusate fractions and in the skin biopsies was measured by RIA. The amount of absorbed dexamethasone was also calculated and correlated to the perfusion flux. A maximum skin penetration of dexamethasone was found after administration of dexamethasone solubilized in acetone/DMSO, followed by salicylic acid ointment, ointment without salicylic acid, and acetone solution Using the isolated perfused bovine udder, the comparison of dermal penetration rates after topical administration of

ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN L6

ACCESSION NUMBER: 1992:400130 CAPLUS

drug formulations is possible.

DOCUMENT NUMBER: 117:130

TITLE: Incorporation of tritiated thymidine, leucine, and

> histidine in murine tail epidermis after **skin** irritation (histoautoradiography) Kietzmann, M.; Lubach, D.; Muether, T.

AUTHOR (S):

CORPORATE SOURCE: Inst. Pharmakol. Toxikol. Pharm., Tieraerztl.

Hochsch., Hannover, W-3000, Germany DTW, Deutsche Tieraerztliche Wochenschrift (1991), SOURCE:

98(12), 453-6

CODEN: DDTWDG; ISSN: 0341-6593

DOCUMENT TYPE: Journal English LANGUAGE: Entered STN: 11 Jul 1992 ED

Histoautoradiog. detns. of thymidine (I) incorporation into AB epidermal DNA and leucine (II) and histidine (III) incorporation into proteins were employed to study changes in epidermal metabolism in mice in the murine tail assay model of skin irritation commonly employed to study effects in pathophysiol. epidermal processes. Thus, irritation either mech. (abrasion with sandpaper) or chemical (with C16H34) or after hyperproliferation induction by maintenance on essential fatty acid-deficient diets resulted in an increased I labeling index and a skin thickening. II was incorporated predominantly in basal epidermal cell layers, yet III predominantly in the granular layer. Mech. irritation induced the

greatest differences in amino acid localization.

CAPLUS COPYRIGHT 2006 ACS on STN L6 ANSWER 21 OF 22

1991:135744 CAPLUS ACCESSION NUMBER: 114:135744 DOCUMENT NUMBER:

Inhibition of n-hexadecane-induced epidermal TITLE:

hyperplasia due to systemically administered

ciclosporin

Lubach, D.; Kietzmann, M. AUTHOR (S):

Dep. Dermatol., Sch. Med., Hannover, Germany CORPORATE SOURCE: Arzneimittel-Forschung (1991), 41(2), 137-40 SOURCE:

us10611549 Kantamneni

CODEN: ARZNAD; ISSN: 0004-4172

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 19 Apr 1991

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AB Epidermal hyperplasia was induced in hairless mice (h/h) by topical n-hexadecane treatment of tail and back skin.

Following this skin irritation, a granular layer developed in interfollicular regions of the tail epidermis. An increase of ornithine decarboxylase activity, of thymidine triphosphate incorporation into DNA and of amino acid incorporation into protein was found. Shown histol. and by measurement of the called biochem. parameters, ciclosporin (cyclosporin A) (CAS 59865-13-3) (pretreatment with 30 mg/kg/day s.c. for 7 days) inhibited the development of epidermal hyperplasia in back and tail epidermis.

L6 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:51293 CAPLUS

DOCUMENT NUMBER: 110:51293

TITLE: Effect of benzoyl peroxide in the epidermis

of mice

AUTHOR(S): Kietzmann, M.; Lubach, D.

CORPORATE SOURCE: Inst. Pharmakol. Toxikol. Pharm., Tieraerztl. Hochsch.

Hannover, Hannover, D-3000/71, Fed. Rep. Ger.

SOURCE: DTW, Deutsche Tieraerztliche Wochenschrift (1988),

95(5), 197-200

CODEN: DDTWDG; ISSN: 0341-6593

DOCUMENT TYPE: Journal LANGUAGE: German ED Entered STN: 17 Feb 1989

The topical application of benzoyl peroxide (I) to the ears and tails of mice resulted in decreased DNA polymerase activity, protein synthesis, and leucine incorporation of the epidermis, without affecting histidine incorporation. Epidermis thickness increased, whereas the relation of thickness to cell count decreased. Effects in the tail epidermis were not so pronounced as those in the ear. Thus, I induces changes in epidermal metabolism, leading to retention acanthosis.

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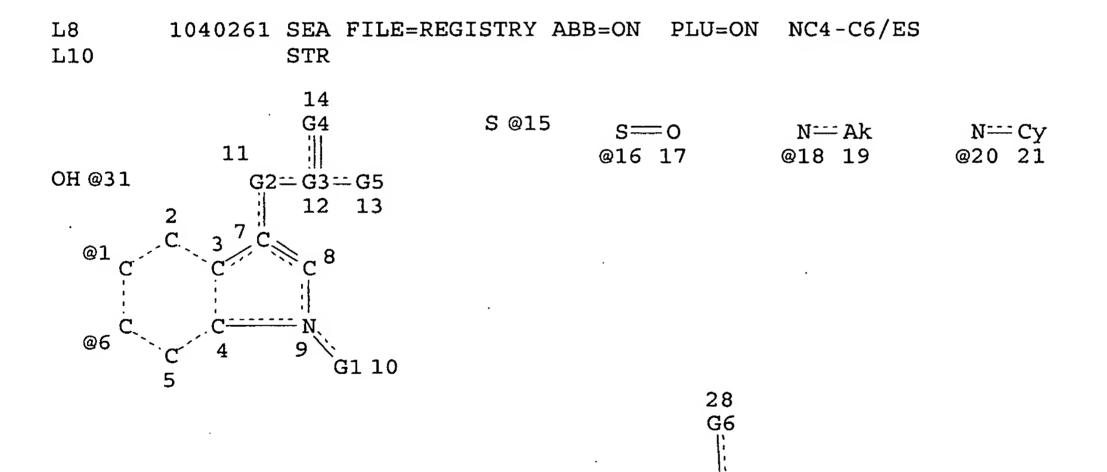
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VAR G1=AK/CY REP G2 = (0-10) A VAR G3=C/15/16 VAR G4=0/S/CH2/NH/18/20 VAR G5=CY/22/24/26/29 VAR G6=H/AK/CY VPA 31-1/6 U NODE ATTRIBUTES: CONNECT IS E3 RC AT CONNECT IS E4 RC AT 16 CONNECT IS E2 RC AT 22

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STEREO ATTRIBUTES: NONE

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L10		STR	
L12	250	SEA	FILE=REGISTRY SUB=L8 SSS FUL L10
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L18	21240	SEA	FILE=HCAPLUS ABB=ON PLU=ON SKIN DISEASES+PFT,NT,OLD/CT
L19	111286	SEA	FILE=HCAPLUS ABB=ON PLU=ON SKIN/CW
L20	2341	SEA	FILE=HCAPLUS ABB=ON PLU=ON INTEGUMENT?
L21	4	SEA	FILE=HCAPLUS ABB=ON PLU=ON L13 AND (L18 OR L19 OR L20)
L22	384518	SEA	FILE=HCAPLUS ABB=ON PLU=ON SKIN OR ?DERM?
L23	17	SEA	FILE=HCAPLUS ABB=ON PLU=ON L13 AND L22
L24	17	SEA	FILE=HCAPLUS ABB=ON PLU=ON L23 OR L21

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L24 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2006:470314 HCAPLUS

us10611649 ···Kantamneni

DOCUMENT NUMBER:

144:495330

TITLE:

1.13

Nanoparticulate compositions of tubulin inhibitors for

treatment of resistant cancers and other diseases

INVENTOR(S):

Papadopoulos, Pavlos; Doty, Mark; Kipp, James E.;

Roessler, Berthold

PATENT ASSIGNEE(S):

Baxter International Inc., USA; Baxter Healthcare

S.A.; Raab, Gerhard

SOURCE:

PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT	NO.		KIN	D	DATE		i	APPL:	ICAT:	ION 1	NO.		D.	ATE	
		-		-									-		
WO 2006	052712		A1		2006	0518	1	WO 2	005-1	JS39	922		2	0051	103
W:	AE, AG	, AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
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	GE, GH	, GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,
	KZ, LC	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
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	IS, IT	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
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	KG, KZ	, MD,	RU,	ТJ,	TM										
US 2006	110462		A1		2006	0525	1	US 2	005-3	2665	18		2	0051	103
PRIORITY APP	LN. INF	0.:					1	US 20	004-	5260	36P]	P 2	0041	108
							1	US 20	005-	5428'	78P]	P 2	0050	111
OTHER SOURCE	(S):		MAR	PAT	144 .	4953	3.0								

OTHER SOURCE(S): MARPAT 144:495330

EDEntered STN: 19 May 2006

GI

The present invention is directed to novel pharmaceutical compns. ABcomprising nano- and micro-particulate formulations of poorly water soluble tubulin inhibitors (I; R1 = H, alkyl, alkylaryl, acyl, aryl; R2 = H, alkyl, acyl, aryl, alkoxycarbonyl, aryloxycarbonyl, cycloalkoxycarbonyl, etc.; R3-6 = H, alkyl, halogen; A,B,C,D = C, N; X = H, OH, halogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, acyl, carboxy, alkoxy, etc.). A tubulin inhibitor is preferably of the indole chemical class, N-substituted indol-3-glyoxyamides, and more preferably N-(pyridin-4-yl)-[1-(4chlorobenzyl) - indol-3-yl]glyoxylic acid amide (D 24851, Indibulin). Methods of making and using such compns. for the treatment of anti-tumor agent resistant cancers and other diseases are also described. For example, a suspension of D-24851 was prepared by mixing an aqueous surfactant

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solution containing 0.1% sodium deoxycholate, 2.2% glycerin, and 0.142% dibasic sodium phosphate with a solution of D-24851 and Poloxamer 188 in lactic acid. The total suspension weight was 2000 g, with a drug concentration of approx.

1%.

The suspension was homogenized, lactic acid was removed and the suspension was homogenized again to give a nanosuspension with the mean particle size of approx. 325 nm.

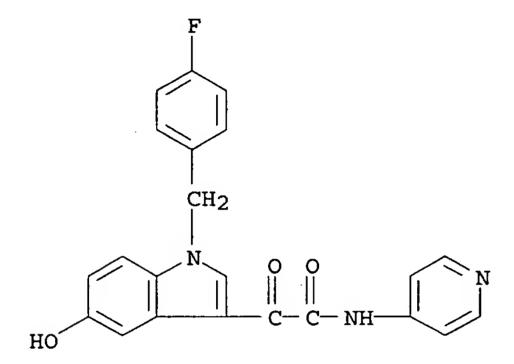
IT 204206-02-0

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(particulate compns. of tubulin inhibitors for treatment of resistant cancers and other diseases)

RN 204206-02-0 HCAPLUS

CN 1H-Indole-3-acetamide, 1-[(4-fluorophenyl)methyl]-5-hydroxy- α -oxo-N-4-pyridinyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:365169 HCAPLUS

DOCUMENT NUMBER:

144:419682

TITLE:

Pharmaceutical compositions containing

phosphodiesterase IV inhibitors and immunosuppressants Harada, Daisuke; Kobayashi, Katsuya; Manabe, Haruhiko;

INVENTOR(S):

Ohshima, Etsuo

CODEN: PIXXD2

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 78 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

racent Tamana

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT	NO.			KIN	D 1	DATE		i	APPL	ICAT:	ION 1	NO.		D	ATE		
WO	2006	0411	20		A1	-	2006	0420	1	WO 2	 005-	 JP18:	 854		2	0051	013	
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		LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	
		NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	
		SK.	SL.	SM.	SY,	TJ,	TM.	TN.	TR.	TT.	TZ.	UA,	UG.	US,	UZ.	VC.	VN.	

YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

JP 2004-299104 A 20041013 JP 2005-113265 A 20050411

Entered STN: 21 Apr 2006 ED

This invention relates to pharmaceutical compns. for the prevention and AB treatment of chronic skin diseases, comprising (a) a phosphodiesterase (PDE)-IV inhibitor or a pharmacol. acceptable salt thereof and (b) an immunosuppressant, which are administered simultaneously or sep. with an interval. For example, tablets were formulated containing 2-(3,5-dichloro-4-pyridinyl)-1-(7-methoxyspiro[1,3benzodioxole-2,1'-cyclopentan]-4-yl)ethanone (PDE-IV inhibitor) 20, tacrolimus (immunosuppressant) 20, lactose 123.4, starch 20, hydroxypropyl cellulose 6, and Mg stearate 0.6 mg per tablet.

257892-33-4 IT

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase IV inhibitor and immunosuppressant combinations for treatment of chronic skin diseases)

257892-33-4 HCAPLUS RN

1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-CN fluorophenyl) methyl] -5-hydroxy- α -oxo- (9CI) (CA INDEX NAME)

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REFERENCE COUNT:

113 THERE ARE 113 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE **FORMAT**

L24 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:364924 HCAPLUS

DOCUMENT NUMBER:

144:398341

TITLE:

Phosphodiesterase IV inhibitor and steroid combinations for the treatment of chronic skin

disease

INVENTOR (S):

Harada, Daisuke; Kobayashi, Katsuya; Manabe, Haruhiko;

Ohshima, Etsuo

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 67 pp.

CODEN: PIXXD2

Kantamneni 🦠

DOCUMENT TYPE: LANGUAGE: Patent Japanese

FAMILY ACC. NUM. COUNT: 1

Japai

PATENT INFORMATION:

	PATE	NT I	. 07			KIN	D	DATE		i	APPL	ICAT:	ION I	NO.		D	ATE	
	WO 2	0060	04112	21		A1	-	2006	0420	,	WO 2	005-	JP18	855 ·		2	0051	013
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		KG, KZ, MD,			RU,	ТJ,	TM											
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ED Entered STN: 21 Apr 2006

AB It is intended to provide a remedy and/or a preventive for a chronic skin disease which comprises (a) a phosphodiesterase (PDE)-IV inhibitor or a pharmacol. acceptable salt thereof and (b) a steroid drug, which are administered simultaneously or sep. at an interval. For example, tablets were formulated containing 2-(3,5-dichloro-4-pyridinyl)-1-(7-methoxyspiro[1,3-benzodioxole-2,1'-cyclopentan]-4-yl)ethanone 50, prednisolone 20, lactose 123.4, starch 20, hydroxypropyl cellulose 6, and Mg stearate 0.6 mg per tablet.

IT 257892-33-4, AWD 12-281

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase IV inhibitor and steroid combinations for treatment of chronic skin disease)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

REFERENCE COUNT:

128 THERE ARE 128 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L24 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:226501 HCAPLUS

DOCUMENT NUMBER: 144:267237

TITLE: The phosphodiesterase 4 inhibitor AWD 12-281 is active

in a new guinea-pig model of allergic skin

inflammation predictive of human skin

penetration and suppresses both Th1 and Th2 cytokines

in mice

AUTHOR(S): Hoppmann, Joachim; Baeumer, Wolfgang; Galetzka,

Christin; Hoefgen, Norbert; Kietzmann, Manfred;

Rundfeldt, Chris

CORPORATE SOURCE: Department of Pharmacology, elbion AG, Radebeul,

D-01445, Germany

SOURCE: Journal of Pharmacy and Pharmacology (2005), 57(12),

1609-1617

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER: Pharmaceutical Press

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Mar 2006

The selective phosphodiesterase 4 (PDE4) inhibitor AWD 12-281 is structurally optimized for topical administration. It has potent effects in models of lung inflammation if administered as a dry powder inhalation. It has also demonstrated its anti-inflammatory property in a mouse model of cutaneous inflammation after topical administration. The aim of this study was to evaluate whether AWD 12-281 may be capable of penetrating human skin. Therefore a new guinea-pig model of allergic skin inflammation had to be developed. In ovalbumin-sensitized guinea-pigs, intracutaneous administration of ovalbumin results in a rapid development of allergic skin wheals. Topically administered AWD 12-281 was capable of reducing the development of wheals, indicating that this compound can penetrate the stratum corneum of guinea-pig skin as a predictor of human skin penetration. A secondary aim was the evaluation of a T cell subtype preference of AWD 12-281 since PDE4 inhibitors are said to preferentially inhibit Th2-type cytokines. Therefore, the effects of AWD 12-281 on a broad spectrum of Th1- and Th2-type cytokines were studied in tissue homogenates after allergen challenge in sensitized mice and in supernatants of anti CD3/anti-CD28-stimulated peripheral blood mononuclear cells (PBMCs). In both models, AWD 12-281 suppressed both T cell subtype cytokines indicating a broad spectrum activity of AWD 12-281. A further issue was to determine the duration of action and the concentration-response relation of

the

topical activity of AWD 12-281 using a model of acute local inflammation - the arachidonic-acid-induced mouse ear edema. The compound exhibited a dose-dependent effect with a minimally effective concentration of 0.3%; after repeated administration the minimally effective concentration was 0.03%. A single administration of a 3% solution resulted in significant suppression of inflammation even 48 h after treatment. In conclusion, our results indicate that AWD 12-281 is a very promising drug candidate not only for the treatment of lung inflammation using inhalative administration but also for the treatment of atopic dermatitis.

IT 257892-33-4, AWD 12-281

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase 4 inhibitor AWD 12-281 is active in a new guinea-pig model of allergic skin inflammation predictive of human skin penetration and suppresses both Th1 and Th2 cytokines in

mice)

יראמוותלתנ

257892-33-4 HCAPLUS RN

1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-CN fluorophenyl) methyl] -5-hydroxy-α-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

REFERENCE COUNT:

27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:149262 HCAPLUS

DOCUMENT NUMBER:

144:239931 TITLE:

Pharmaceutical compositions for the treatment of respiratory and gastrointestinal disorders

Jung, Birgit; Himmelsbach, Frank INVENTOR(S): Boehringer Ingelheim International GmbH, Germany; PATENT ASSIGNEE(S):

Boehringer Ingelheim Pharma Gmbh & Co. KG

PCT Int. Appl., 321 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE: English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATEN	T NO.			KIN	D	DATE			APPL					D	ATE	
	WO 20	060157	75		A2	-	2006	0216							2	0050	803
	W	: AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KP,	KR,	KZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	Ŕ	W: AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	ТJ,	TM										
	US 20	KG, KZ, M US 2006035893					2006	0216		US 2	005-	1896	43		2	0050	726
PR	IORITY A	PPLN.	INFO	. :						EP 2	004-	1880	8	i	A 2	0040	807
OT	HER SOUR	CE(S):			MAR	PAT	144:	2399	31								
ED	Enter	ed STN	: 1	7 Fe	b 20	06											

The present invention relates to novel pharmaceutical compns. comprising at least 1 EGFR kinase inhibitor and at least one addnl. active compound selected from β -2 mimetics, steroids, PDE-IV inhibitors, p38 MAP kinase inhibitors, NK1 antagonists and endothelin-antagonists, processes for preparing the compns. and the use thereof as drugs in the treatment of respiratory or gastrointestinal complaints, as well as inflammatory diseases of the joints, the **skin** or the eyes. Thus, an inhalable powder contained an EGFR kinase inhibitor 150, formoterol fumarate dihydrate 50, and lactose 12,300 mg/capsule.

IT 257892-33-4, AWD 12-281

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. for treatment of respiratory and gastrointestinal disorders)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

L24 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1155523 HCAPLUS

DOCUMENT NUMBER: 143:416252

TITLE: Novel medicament combinations for the treatment of

respiratory diseases

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany

SOURCE: U.S. Pat. Appl. Publ., 50 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
US 2005239778	A1 20051027	US 2005-109094	20050419
DE 102004019540	A1 20051110	DE 2004-102004019540	20040422
DE 102004052987	A1 20060504	DE 2004-102004052987	20041103
WO 2005102349	A1 20051103	WO 2005-EP4073	20050418
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BW, BY,	BZ, CA, CH,
CN, CO, CR,	CU, CZ, DE, DK,	DM, DZ, EC, EE, EG, ES,	FI, GB, GD,
GE, GH, GM,	HR, HU, ID, IL,	IN, IS, JP, KE, KG, KM,	KP, KR, KZ,
LC, LK, LR,	LS, LT, LU, LV,	MA, MD, MG, MK, MN, MW,	MX, MZ, NA,
NI, NO, NZ,	OM, PG, PH, PL,	PT, RO, RU, SC, SD, SE,	SG, SK, SL,

SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,

MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

DE 2004-102004019540A 20040422

US 2004-578542P P 20040610

DE 2004-102004052987A 20041103

EP 2005-2496 A 20050207

OTHER SOURCE(S): MARPAT 143:416252

ED Entered STN: 28 Oct 2005

GI

$$\begin{array}{c|c}
 & \text{OH} \\
 & \text{Me Me} \\
 & \text{N} \\
 & \text{OH} \\
 & \text{OH} \\
 & \text{N} \\$$

The present invention relates to a pharmaceutical composition comprising one or more compds. of formula I wherein n denotes 1 or 2; R1 denotes hydrogen, halogen, C1-C4-alkyl or -O-C1-C4-alkyl; R2 denotes hydrogen, halogen, C1-C4-alkyl or -O-C1-C4-alkyl; R3 denotes C1-C4-alkyl, OH, halogen, -O-C1-C4-alkyl, -O-C1-C4-alkylene-COOH, -O-C1-C4-alkylene-CO-O-C1-C4-alkyl, and at least one other active substance for the treatment of respiratory diseases. The second active substance can by an anticholinergic, a phosphodiesterase IV inhibitor, a steroid, a LTD4 antagonist or an EGFR inhibitor.

IT 257892-33-4, AWD-12-281

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

I

(phosphodiesterase IV inhibitor; novel medicament combinations for treatment of respiratory diseases)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo- (9CI) (CA INDEX NAME)

L24 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:467725 HCAPLUS

DOCUMENT NUMBER:

141:17651

TITLE:

• • •

Phosphodiesterase IV and phosphodiesterase III/IV

inhibitors for use in the treatment of cachexia

INVENTOR(S):

Schmidt, Mathias

PATENT ASSIGNEE(S):

Altana Pharma A.-G., Germany

SOURCE:

PCT Int. Appl., 38 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA'	rent :	NO.			KIN	D .	DATE		•	APPI	LICAT	ION 1	NO.		D.	ATE	
	WO	2004	 0478:	 17		'A1	-	2004	0610	,	WO 2	2003-1	EP13:	313		2	0031	126
		W:	AE,	AL,	AU,	BA,	BR,	CA,	CN,	CO,	DZ,	, EC,	EG,	GE,	HR,	ID,	IL,	IN,
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			VN,	YU,	ZA,	ZW												
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			DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	, IT,	LU,	MC,	NL,	PT,	RO,	SE,
			SI,	SK,	TR													
												2003-						
	AU	2003	2898	98		A1		2004	0618		AU 2	2003-	2898	98		2	0031	126
	EP	1567	136			A1		2005	0831		EP 2	2003-	7822	32		2	0031	126
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			-		-	-	-		•	•	•	, TR,	•	•	•	-		
												2004 -						
	US	2006	0795	40		Al		2006	0413			2005-						
PRIC	RIT	Y APP	LN.	INFO	.:							2002-						
		_				_	_			1	WO 2	2003-	EP13	313	Ī	W 2	0031	126
					A T		~ <i>A</i>											

ED Entered STN: 10 Jun 2004

AB The invention discloses the use of a PDE IV or PDE III/IV inhibitor for the treatment of cachexia.

IT 257892-33-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phosphodiesterase IV and phosphodiesterase III/IV inhibitors for treatment of cachexia)

RN 257892-33-4 HCAPLUS

1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-CN fluorophenyl) methyl] -5-hydroxy-α-οxο- (9CI) (CA INDEX NAME)

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 13

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:60309 HCAPLUS

140:105273 DOCUMENT NUMBER:

Topical treatment of skin diseases TITLE:

Rundfeldt, Chris; Kietzmann, Manfred; Hoppmann, INVENTOR(S):

Joachim; Baeumer, Wolfgang; Kuss, Hildegard; Hoefgen,

Norbert

Elbion AG, Germany PATENT ASSIGNEE(S):

PCT Int. Appl., 48 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT	NO.			KIN	D	DATE								D	ATE	
WO	2004	 0069:	20		A1	-	2004	0122				 EP75:			2	0030	 710
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
							DK,		-	-	-	-		-	-	-	-
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
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		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
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		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
US	2004	0389	58		A1		2004	0226		US 2	003-	6116	49		2	0030	701
CA	2492	093			AA		2004	0122	(CA 2	003-	2492	093		2	0030	710
AU	2003	2543	32		A1		2004	0202		AU 2	003-	2543	32		2	0030	710
BR	2003	0126	96		Α		2005	0426		BR 2	003-	1269	6		2	0030	710
EP	2 1531818				A1		2005	0525		EP 2	003-	7638	10		2	0030	710
	R: AT, BE, C				DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
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CN	1681	500			A		2005	1012		CN 2	003-	8215	20		2	0030	710

OTHER SOURCE(S): MARPAT 140:105273

ED Entered STN: 26 Jan 2004

antammer:

The present invention relates to a method for the treatment of an inflammatory and/or allergic skin disease comprising topically administering a substituted hydroxy indole which is a phosphodiesterase 4 inhibitor. Examples are provided of the topical effectiveness of AWD 12-281 and cilomilast in dermal immunol. inflammation.

WO 2003-EP7514

IT 257892-33-4, AWD 12-281

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:1006988 HCAPLUS

DOCUMENT NUMBER: 140:59632

TITLE: Preparation of benzofused heteroaryl amide derivatives

of thienopyridines as tyrosine kinase inhibitors

useful against hyperproliferative disorders

INVENTOR(S): Romines, William Henry, III; Kania, Robert Steven;

Lou, Jihong; Collins, Michael Raymond; Cripps, Stephan James; He, Mingying; Zhou, Ru; Palmer, Cynthia Louise;

Deal, Judith Gail

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 194 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

20030710

PAT	rent :	NO.			KINI)	DATE			APP	LICAT	ION :	NO.		i	DATE		
WO.	2003	1064	62		A1	-	2003	1224		wo	2003-	IB23	93	-		20030	604	
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	BG,	BR,	BY,	BZ,	CA	, CH,	CN,	
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	KG,	KP,	KR,	KZ,	LC	, LK,	LR,	
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		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ	, GW,	ML,	MR,	NE,	SN	, TD,	TG	
CA	2489	466			AA		2003	1224		CA	2003-	2489	466			20030	604	
AU	2003	2331	34		A1		2003	1231		AU	2003-	2331	34			20030	604	
EP	1515	975			A1		2005	0323		ΕP	2003-	7278	88			20030	604	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	2, IT,	LI,	LU,	NL,	SE	, MC,	PT,	
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	TR,	BG,	CZ,	EE,	HU	, SK		
BR	2003	0118	06		A		2005	0329		BR	2003-	1180	6			20030	604	
CN	1671	714			A		2005	0921		CN	2003-	8181	09			20030	604	
JP	2005	5346	69		T2		2005	1117		JP	2004-	5132	93			20030	604	
US	2004	0099	65		A1		2004	0115		US	2003-	4600	10			20030	611	
US	6869	962			B2		2005	0322										
US	2004	1861	26		A1		2004	0923		US	2004-	7962	26			20040	309	
US	7045	528			B2		2006	0516										
NO	2004	0051	03		Α		2005	0217		NO	2004-	5103				20041	124	
US	2006	0795	48		A1		2006	0413		US	2005-	2564	77			20051	.021	
RIORIT	Y APP	LN.	INFO	.:						US	2002-	3891	10P		P	20020	614	
										WO	2003-	IB23	93		W	20030	604	
										US	2003-	4600	10		A3	20030	611	
										US	2004-	7962	26		A1	20040	309	
HER SO	OTTRCE.	181.			MAR	ТΔС	140:	59632	2									

OTHER SOURCE(S): MARPAT 140:59632

ED Entered STN: 26 Dec 2003

GI

The invention relates to benzofused heteroaryl amide derivs. of ABthienopyridines (shown as I; variables defined below; e.g. II) and to prodrugs or metabolites thereof, or pharmaceutically acceptable salts or solvates of said compds., prodrugs, and metabolites. The invention also relates to pharmaceutical compns. containing I and to methods of treating hyperproliferative disorders in a mammal by administering I. Inhibitory activities of >200 examples of I are tabulated for a number of tyrosine kinases. Also, pharmacokinetics of 19 examples of I in mice and metabolism in human liver microsomes were analyzed. Although the methods of preparation are not claimed, 140 example prepns. are included. For example, II was prepared in 5 steps starting from 3-methoxybenzenethiol and bromoacetaldehyde di-Et acetal and involving intermediates 1-[(2,2-diethoxyethyl)sulfanyl]-3methoxybenzene, 6-methoxy-2-methylbenzo[b]thiophene, 6-methoxy-2methylbenzo[b]thiophene-3-carboxylic acid methylamide, and 6-hydroxy-2-methylbenzo[b]thiophene-3-carboxylic acid methylamide; the last step comprises reaction of 7-chloro-2-(1-methyl-1H-imidazol-2yl)thieno[3,2-b]pyridine and 6-hydroxy-2-methylbenzo[b]thiophene-3carboxylic acid methylamide (40 %). For I: Y is NH, O, S, or CH2; Z is O, S, or N; R14 is a C1-C6 alkyl, C1-C6 alkylamino, C1-C6 alkylhydroxy, C3-C10 cycloalkylamino, or methylureido group; R15 and R17 = H, halo, or a C1-C6 alkyl group (un) substituted by ≥1 R5 groups. R16 is H or a C1-C6 alkyl group when Z is N, and R16 is absent when Z is O or S; R11 is H, C1-C6 alkyl, C3-C10 cycloalkyl, C(O)NR12R3, C(O)(C6-C10 aryl), (CH2)t(C6-C10 aryl), (CH2)t(5 to 10 membered heterocyclic), (CH2)tNR12R13, SO2NR12R13 or CO2R12. Each R5 = halo, cyano, nitro, trifluoromethoxy, trifluoromethyl, azido, C(O)R8, C(O)OR8, OC(O)R8, OC(O)OR8, NR6C(O)R7, C(O)NR6R7, NR6R7, OR9, SO2NR6R7, C1-C6 alkyl, C3-C10 cycloalkyl, C1-C6 alkylamino, (CH2)jO(CH2)qNR6R7, (CH2)tO(CH2)qOR9, (CH2)tOR9, S(O)j(C1-C6 alkyl), (CH2)t(C6-C10 aryl), (CH2)t(5 to 10 membered heterocyclic), C(O)(CH2)t(C6-C10 aryl), (CH2)tO(CH2)j(C6-C10 aryl), (CH2)tO(CH2)q(5 to 10 membered heterocyclic), C(O)(CH2)t(5 to 10 membered heterocyclic), (CH2) jNR7 (CH2) qN R6R7, (CH2) jNR7CH2C (O) NR6R7, (CH2) jNR7 (CH2) qNR9C (O) R8,

II

(CH2)jNR7(CH2)tO(CH2)qOR9, (CH2)jNR7(CH2)qS(O)j(C1-C6 alkyl), (CH2)jNR7(CH2)tR6, SO2(CH2)t(C6-C10 aryl), and SO2(CH2)t(5 to 10 membered heterocyclic). Each R6 and R7 = H, OH, C1-C6 alkyl, C3-C10 cycloalkyl, (CH2)t(C6-C10 aryl), (CH2)t(5 to 10 membered heterocyclic), (CH2)tO(CH2)qOR9, (CH2)tCN(CH2)tOR9, (CH2)tCN(CH2)tR9 and (CH2)tOR9; each R8 = H, C1-C10 alkyl, C3-C10 cycloalkyl, (CH2)t(C6-C10 aryl), and (CH2)t(5 to 10 membered heterocyclic); t = 0-6; j = 0-2; q = 2-6; each R9 and R10 = H, OR6, C1-C6 alkyl, and C3-C10 cycloalkyl. Each R12 and R13 = H, C1-C6 alkyl, C3-C10 cycloalkyl, (CH2)t(C3-C10 cycloalkyl), (CH2)t(C6-C10 aryl), (CH2)t(5 to 10 membered heterocyclic), (CH2)tO(CH2)qOR9, and (CH2)tOR9; addnl. details including provisos are given in the claims.

IT 638217-26-2P 638218-20-9P

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RN

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzofused heteroaryl amide derivs. of thienopyridines as tyrosine kinase inhibitors useful against hyperproliferative disorders) 638217-26-2 HCAPLUS

CN 1H-Indole-3-carboxamide, N-cyclopropyl-6-hydroxy-1,2-dimethyl- (9CI) (CA INDEX NAME)

RN 638218-20-9 HCAPLUS

CN 1H-Indole-3-carboxamide, 6-hydroxy-1,2-dimethyl-N-2-pyridinyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:695438 HCAPLUS

DOCUMENT NUMBER:

140:87294

TITLE:

AWD 12-281, a highly selective phosphodiesterase 4 inhibitor, is effective in the prevention and treatment of inflammatory reactions in a model of

allergic dermatitis

AUTHOR(S):

Baeumer, Wolfgang; Gorr, Gilbert; Hoppmann, Joachim; Ehinger, Andreas M.; Rundfeldt, Chris; Kietzmann,

Manfred

CORPORATE SOURCE:

Department of Pharmacology, Toxicology and Pharmacy,

School of Veterinary Medicine, Hannover, D-30559,

Germany

SOURCE: Journal of Pharmacy and Pharmacology (2003), 55(8),

1107-1114

CODEN: JPPMAB; ISSN: 0022-3573

PUBLISHER:

Pharmaceutical Press

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 05 Sep 2003

AWD 12-281 (N-(3,5-dichloro-4-pyridinyl)-2-[1-(4-fluorobenzyl)-5-hydroxy-AB 1H-indol-3-yl]-2-oxoacetamide), a phosphodiesterase 4 inhibitor, which is optimized for topical administration, was tested in a model of allergic dermatitis in mice. To obtain an allergic dermatitis, BALB/c mice were sensitized to toluene-2,4-diisocyanate (TDI). allergic reaction was challenged by topical administration of TDI onto the mice ears. AWD 12-281 was tested for its anti-inflammatory potential by oral, i.p. and topical administration. The phosphodiesterase 4 inhibitor, cilomilast (SB 207499), and/or the corticosteroid, diflorasone diacetate, were used as reference compds. Given orally and i.p. 2 h before as well as 5 and 24 h after TDI challenge, AWD 12-281 showed no, or only a transient inhibition of the allergen-induced ear swelling, whereas cilomilast significantly inhibited this ear swelling. Applied topically onto the ears before TDI challenge, AWD 12-281, cilomilast and diflorasone diacetate caused total inhibition of ear swelling 24 h after challenge, confirmed by a decrease of the pro-inflammatory cytokines interleukin-4, interleukin-6 and macrophage inhibitory protein-2. Administered topically after TDI challenge as therapeutic intervention, AWD 12-281 and diflorasone diacetate caused significant inhibition of ear swelling; cilomilast failed to do so. These results indicate that topically administered AWD 12-281 may be potent in the prevention and treatment of allergic/inflammatory skin diseases.

IT **257892-33-4**, AWD 12-281

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(AWD 12-281, a highly selective phosphodiesterase 4 inhibitor, is effective in prevention and treatment of inflammatory reactions in a model of allergic dermatitis)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4fluorophenyl)methyl]-5-hydroxy-α-oxo- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS

us10611649 Kantameni

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:495906 HCAPLUS

DOCUMENT NUMBER: 138:117605

TITLE: Effects of the phosphodiesterase 4 inhibitors SB

207499 and AWD 12-281 on the inflammatory reaction in

a model of allergic dermatitis

AUTHOR(S): Baumer, Wolfgang; Gorr, Gilbert; Hoppmann, Joachim;

Ehinger, Andreas M.; Ehinger, Britt; Kietzmann,

Manfred

CORPORATE SOURCE: Toxicology and Pharmacy, Department of Pharmacology,

School of Veterinary Medicine, Hanover, 30559, Germany

SOURCE: European Journal of Pharmacology (2002), 446(1-3),

195-200

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 02 Jul 2002

The inhibitors of the phosphodiesterase 4, SB 207499 (cilomilast, ABc-4-cyano-4-(3-cyclopentyloxy-4-methoxyphenyl)-r-L-cyclohexane carboxylic acid) and AWD 12-281 (N-(3,5-dichloropyrid-4-yl)-[1-(4-fluorobenzyl)-5hydroxyindole-3-yl]glyoxylic acid amide) were tested in a model of allergic dermatitis in mice. To obtain an allergic dermatitis, BALB/c mice were sensitized to toluene-2,4diisocyanate. The allergic reaction was challenged by topical administration of toluene-2,4-diisocyanate onto the mice ears. Before challenge, two groups of mice were treated topically (ear skin) with SB 207499 or AWD 12-281. There was a significant ear swelling in toluene-2,4-diisocyanate-challenged mice ears 4, 8, 16, 24 and 48 h after challenge. SB 207499 and AWD 12-281 inhibited this swelling significantly 8, 16, 24 and 48 h after the challenge. For biochem. parameters and histol., ears were sampled from mice sacrificed 4, 8 and 16 h after the challenge. In homogenized tissue, SB 207499 and AWD 12-281 inhibited significantly the secretion of interleukin 1\beta induced by toluene-2,4-diisocyanate 4 and 8 h after challenge. The cell influx (granulocytes) observed in the toluene-2,4-diisocyanate-challenged mice 8 and 16 h after challenge was nearly abolished by AWD 12-281 and SB 204799.

IT **257892-33-4**, AWD 12-281

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(effects of phosphodiesterase 4 inhibitors SB 207499 and AWD 12-281 on inflammatory reaction in a model of allergic dermatitis)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:30560 HCAPLUS

DOCUMENT NUMBER:

134:221365

TITLE:

The effect of selective and non-selective phosphodiesterase inhibitors on allergen- and leukotriene C4-induced contractions in passively

sensitized human airways

AUTHOR (S):

Schmidt, Dunja T.; Watson, Nikki; Dent, Gordon;

Ruhlmann, Elke; Branscheid, Detlev; Magnussen, Helgo;

Rabe, Klaus F.

CORPORATE SOURCE:

Department of Pulmonology, Leiden University Medical

Centre, Leiden, NL-2333 ZA, Neth.

SOURCE:

AB

British Journal of Pharmacology (2000), 131(8),

1607-1618

CODEN: BJPCBM; ISSN: 0007-1188

PUBLISHER:

Nature Publishing Group

DOCUMENT TYPE:

Journal English

LANGUAGE: Englis
ED Entered STN: 12 Jan 2001

Non-selective inhibitors of cyclic nucleotide phosphodiesterase (PDE) block allergen-induced contraction of passively sensitized human airways in vitro by a dual mechanism involving a direct relaxant effect on smooth muscle and inhibition of histamine and cysteinyl leukotriene (LT) release from airways. We investigated the effects of non-selective PDE inhibitors and selective inhibitors of PDE3 and PDE4 in order to determine the involvement of PDE isoenzymes in the suppression of allergic bronchoconstriction. Macroscopically normal airways from 76 patients were sensitized with IgE-rich sera (>250 u ml-1) containing specific antibodies against allergen (Dermatophagoides farinae). Contractile responses of bronchial rings were assessed using standard organ bath techniques. Passive sensitization caused increased contractile responses to allergen, histamine and LTC4. Non-selective PDE inhibitors (theophylline, 3-isobutyl-1-methylxanthine [IBMX]), a PDE3-selective inhibitor (motapizone), PDE4-selective inhibitors (RP73401, rolipram, AWD 12-281) and a mixed PDE3/4 inhibitor (zardaverine) all significantly relaxed inherent bronchial tone at resting tension and to a similar degree. Theophylline, IBMX, zardaverine and the combination of motapizone and RP73401 inhibited the contractile responses to allergen and LTC4. Pre-treatment with motapizone, RP73401, rolipram or the methylxanthine

adenosine receptor antagonist, 8-phenyltheophylline, did not significantly decrease responses to either allergen or LTC4. We conclude that combined inhibition of PDE3 and PDE4, but not selective inhibition of either isoenzyme or antagonism of adenosine receptors, is effective in suppressing allergen-induced contractions of passively sensitized human airways. The relationship between allergen- and LTC4-induced responses suggests that PDE inhibitors with PDE3 and PDE4 selectivity are likely to act in part through inhibition of mediator release and not simply through direct relaxant actions on airway smooth muscle.

IT 257892-33-4, AWD 12-281

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(phosphodiesterase inhibitors in allergen- and leukotriene C4-induced contractions in sensitized human airways)

RN 257892-33-4 HCAPLUS

CN 1H-Indole-3-acetamide, N-(3,5-dichloro-4-pyridinyl)-1-[(4-fluorophenyl)methyl]-5-hydroxy-α-oxo-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1997:562996 HCAPLUS

DOCUMENT NUMBER:

127:239123

TITLE:

Combinations having immunosuppressive effects,

containing cyclooxygenase-2-inhibitors and

5-lipoxygenase inhibitors

INVENTOR(S):

Gregory, Susan A.; Isakson, Peter C.; Anderson, Gary G.D. Searle and Co., USA; Gregory, Susan A.; Isakson,

Peter C.; Anderson, Gary

SOURCE:

PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PAT	ENT	NO.			KIN	D :	DATE		i	APPL	ICAT:	ION I	NO.		D	ATE	
WO	WO 9729776				A1		1997	0821	1	WO 1:	997-1	US15	58		19	9970	212
	W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK.	EE.	ES.	FI.	GB.	GE.	HU.	TI.	TS.	JP.	KE.	KG.	KP.	KR.	KZ.	LC.

OTHER SOURCE(S): MARPAT 127:239123

ED Entered STN: 04 Sep 1997

acammena

Treatment with a cyclooxygenase-2 inhibitor and a 5-lipoxygenase inhibitor is described as being useful in reducing recipient rejection of transplanted organs and for treatment of autoimmune diseases.

4-[5-(3-Fluoro-4-methoxyphenyl)-3-(difluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide and N'-[3-[5-(4-fluorophenoxy)-2-furyl]-1-methyl-2-propynyl]-N'-hydroxyurea were prepared and a combination of these 2 compds. showed a delay in rejection time of skin grafts while treatment alone of each of these compds. resulted in no prolongation of graft survival.

US 1999-430072

IT 130838-15-2, Y-19432

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase-2 and 5-lipoxygenase inhibitor combinations with immunosuppressive effects)

RN 130838-15-2 HCAPLUS

CN 1H-Indole-3-carboxamide, 1-butyl-5-hydroxy-2-methyl-N-[1-(2-phenylethyl)-4-piperidinyl]-, hydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{N-Bu} \\ & \text{Me} \\ & \text{C-NH} \\ & \text{O} \end{array}$$

•x HCl

L24 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN .

ACCESSION NUMBER:

1995:994335 HCAPLUS

DOCUMENT NUMBER:

124:86811

TITLE:

Novel indole derivatives useful to treat

्र वेह वृद्धकार

A3 19991018

APPLICATION NO.

DATE

INVENTOR(S):

estrogen-related neoplasms and disorders
Bitonti, Alan J.; McDonald, Ian A.; Salituro,
Francesco G.; Whitten, Jeffrey P.; Jarvi, Esa T.;

Wright, Paul S.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals Inc., USA

SOURCE:

PCT Int. Appl., 173 pp.

DATE

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

KIND

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

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	6807						1997											
EP	7465	44			A1		1996	1211]	EP 1	995-	9101	64		1	9950	131	
EP	7465	44			B1		1998	0909										
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	2122						1998											
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	5877				A		1999				996-					9960		
	9603				A		1996				996-					9960		
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OTHER SOURCE(S): MARPAT 124:86811

ED Entered STN: 22 Dec 1995

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1.17

The invention relates to indole derivs. I [n = 1-12; p = 0, 1; X = 1-3 of H, halo, OH, alkyl, alkoxy, R6CO2; R1 = H, alkyl, (un)substituted phenylalkyl, benzoyl, carbamoyl, etc.; R2 = H, alkyl, (un)substituted Ph; R3, R4 = H, alkyl; R5 = H, alkyl, Ph; or R4R5 = CH2CH2GCH2CH2; G = bond, NMe, CH2, O; R6 = alkyl, (un)substituted Ph; one of R1-R5 ≠ H when n = 1] and their pharmaceutically acceptable salts. I and salts are useful in down-regulating estrogen receptor expression. Also included are methods for the treatment or prophylaxis of neoplasms or of controlling neoplasm growth, especially estrogen-dependent neoplasms such as those associated

II

with breast, ovarian, and cervical tissue. Also provided is a method for treating autoimmune diseases. For example, reaction of 1-[5-methoxy-1-(4-chlorobenzoyl)-2-methyl-1H-indol-3-yl]acetic acid chloride with 8-aminooctanoic acid methylbutylamide [prepns. given] in PhMe in the presence of (iso-Pr)2NEt, and demethylation of the phenolic Me ether with BBr3 in CH2Cl2, gave the preferred compound II [also named MDL 101,906]. The latter inhibited estradiol-dependent transcription of an estradiol-dependent luciferase reporter plasmid in MCF-7 human breast tumor cells with an IC50 of 5.2 μM . Over 180 synthetic examples cover preparation of I and intermediates, and 9 biol. examples cover a variety of tests of selected I, including relative binding affinities to estrogen receptor, depletion of receptor from tumor cells, and inhibition of cells including tamoxifen-resistant LY-2 cells (IC50 of II = 4.7 μM).

IT 172595-95-8P 172596-03-1P 172596-18-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indoles as estrogen-dependent antineoplastics)

RN 172595-95-8 HCAPLUS

CN 1H-Indole-3-acetamide, 1-(4-chlorobenzoyl)-5-hydroxy-2-methyl-N-[8-oxo-8-(1-pyrrolidinyl)octyl]- (9CI) (CA INDEX NAME)

RN 172596-03-1 HCAPLUS

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CN 1H-Indole-3-acetamide, 1-benzoyl-5-hydroxy-2-methyl-N-[7-(methylphenylamino)-7-oxoheptyl]- (9CI) (CA-INDEX NAME)

RN 172596-18-8 HCAPLUS

CN 1H-Indole-3-acetamide, 1-(4-chlorobenzoyl)-5-hydroxy-2-methyl-N-[8-(4-morpholinyl)-8-oxooctyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:982654 HCAPLUS

DOCUMENT NUMBER: 124:175826

TITLE: Preparation of 2-indolyldisulfides and analogs as

protein tyrosine kinase inhibitors and antitumor

agents

INVENTOR(S): Dobrusin, Ellen M.; Showalter, Howard D. H.; Denny,

William A.; Palmer, Brian D.; Rewcastle, Gordon W.;

Tercel, Moana; Thompson, Andrew M.

PATENT ASSIGNEE(S): Warner-Lambert Co., USA

SOURCE: U.S., 53 pp. Cont.-in-part of U.S. Ser. No. 926, 015,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5464861	Α	19951107	US 1993-94792	19930809
HU 71553	A2	19951228	HU 1995-341	19930802
CZ 283965	B6	19980715	CZ 1995-288	19930802
NZ 255194	A	20000128	NZ 1993-255194	19930802
US 5556874	A	19960917	US 1995-438616	19950510
PRIORITY APPLN. INFO.:			US 1992-926015	B2 19920806
			US 1993-94792	A3 19930809

OTHER SOURCE(S): MARPAT 124:175826

ED Entered STN: 14 Dec 1995

GI

AB Title compds. [I; R1 = H, halo, alkyl, alkoxy, etc.; R2 = (acyl)alkyl, acyl, CH:CHCO2H, etc.; R3 = H, alkyl, CH2Ph; R4 = SH, SnR, SeH, SenR, etc.; R = H, alkyl, (hetero)aryl, I in which R4 = bond, etc.; R4R5 = S, Se; R5R6 = bond; R6 = H; n = 1-3] were prepared 2Hus, 1-methyl-2-indolinone was treated with P2S5 and the product condensed with PhNCO to give, after oxidation, title compound II which had IC50 of 3-4μM against growth factor mediated mitogenesis in vitro.

IT 158719-27-8P 158719-43-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-indolyldisulfides and analogs as protein tyrosine kinase inhibitors and antitumor agents)

RN 158719-27-8 HCAPLUS

CN 1H-Indole-3-carboxamide, 2,2'-dithiobis[6-hydroxy-1-methyl-N-phenyl- (9CI) (CA INDEX NAME)

- F

RN 158719-43-8 HCAPLUS

CN 1H-Indole-3-carboxamide, 2,2'-dithiobis[5-hydroxy-1-methyl-N-phenyl- (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:655576 HCAPLUS

DOCUMENT NUMBER: 121:255576

TITLE: Tyrosine Kinase Inhibitors. 3. Structure-Activity

Relationships for Inhibition of Protein Tyrosine Kinases by Nuclear-Substituted Derivatives of 2,2'-Dithiobis(1-methyl-N-phenyl-1H-indole-3-

carboxamide)

AUTHOR(S): Rewcastle, Gordon W.; Palmer, Brian D.; Dobrusin,

Ellen M.; Fry, David W.; Kraker, Alan J.; Denny,

William A.

CORPORATE SOURCE: School of Medicine, University of Auckland, Auckland,

N.Z.

SOURCE: Journal of Medicinal Chemistry (1994), 37(13), 2033-42

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 26 Nov 1994

GI

A series of indole-substituted 2,2'-dithiobis(1-methyl-N-phenyl-1H-indole-AB3-carboxamides) I (R = H, 5-Cl, 6-Me, 7-OH, 5-MeO, etc.) were prepared and evaluated for their ability to inhibit the tyrosine kinase activity of both the epidermal growth factor receptor (EGFR) and the nonreceptor pp60v-src tyrosine kinase. The compds. were synthesized by conversion of appropriate 1-methyloxindoles to 1-methyl-2-indolinethiones with P2S5 followed by subsequent reaction with NaH and Ph isocyanate and oxidative dimerization of the resulting 2,3-dihydro-N-phenyl-2-thioxo-1Hindole-3-carboxamides. The parent compound and many of the substituted analogs were moderately potent inhibitors of both kinase enzymes, but no clear relationships were seen between substitution on the indole ring and inhibitory activity. While 4-substituted compds. were generally inactive, 5-substituted derivs. with electron-withdrawing groups showed inhibitory activity. However, none of the substituted compds. showed significantly better activity than the unsubstituted parent compound There was generally a good correlation between activity against the EGFR and pp60v-src kinases, but several compds. did show some specificity (>20-fold) of inhibition; 5-Cl and 5-Br derivs. preferentially inhibited pp60v-src, while the 5-CF3 compound preferentially inhibited EGFR. Selected compds. from the series were found to inhibit the growth of Swiss 3T3 fibroblasts with IC50s in the range 2-25 μM, the most active being 4-substituted derivs. The compds. inhibited bFGF-mediated protein tyrosine phosphorylation in intact cells more effectively than EGFR- or PDGF-mediated phosphorylation.

IT 158719-27-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and protein tyrosine kinases inhibition by)

RN 158719-27-8 HCAPLUS

CN 1H-Indole-3-carboxamide, 2,2'-dithiobis[6-hydroxy-1-methyl-N-phenyl- (9CI) (CA INDEX NAME)

IT 158719-43-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 158719-43-8 HCAPLUS

CN 1H-Indole-3-carboxamide, 2,2'-dithiobis[5-hydroxy-1-methyl-N-phenyl- (9CI) (CA INDEX NAME)

L24 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1994:483050 HCAPLUS

DOCUMENT NUMBER:

121:83050

TITLE:

Preparation of 2-indolinethiones and related

disulfides and seleno-analogs as protein tyrosine

kinase inhibitors and antitumor agents

INVENTOR(S):

Dobrusin, Ellen Myra; Showalter, Howard Daniel Hollis;

Denny, William Alexander; Palmer, Brian Desmond; Rewcastle, Gordon William; Tercel, Moana; Thompson,

Andrew Mark

PATENT ASSIGNEE(S):

Warner-Lambert Co., USA

SOURCE:

PCT Int. Appl., 212 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

TENT NO.		KIND	DATE	APPLICATION NO.	DATE	
					19930802	
•	•	•		•	MC NI DT CE	
•	BE, CI	A1			19930802	
R: AT,	BE, CH	I, DE, I	DK, ES, FR,	GB, GR, IE, IT, LI,	LU, MC, NL, PT,	SE
71553		A2	19951228	HU 1995-341	19930802	
08503450		T2	19960416	JP 1993-519671	19930802	
672224		B2	19960926	AU 1993-47994	19930802	•
9347994		A1	19940303			
283965		В6	19980715	CZ 1995-288	19930802	
255194		Α	20000128	NZ 1993-255194	19930802	
2155187		C2	20000827	RU 1995-108332	19930802	
283413		В6	20030701	SK 1995-135	19930802	
APPLN.	INFO.:			US 1992-926015	A 19920806	
				WO 1993-US7272	W 19930802	
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OTHER SOURCE(S):

MARPAT 121:83050

ED Entered STN: 20 Aug 1994

GI

·11 - F-

AB Title compds. [I; R1 = H, halo, OH, alkyl, alkoxy, CO2H, etc.; 1 or 2 CR1
= N; R2 = (acyl)alkyl, CH:CHCO2H, alkylcarbabamoyl, acyl, etc.; R3 = H,
alkyl, CH2Ph; R4 = ZH, ZnX, ZnQ; R5 = H and R4R6 = S or Se; R5R6 = bond; Q
= I in which R4 = Zn and R5R6 = bond; X = H, alkyl, CH2Ph, (hetero)aryl; Z
= S, Se; n = 0-3] were prepared Thus, 1-methyl-2-indolinone was treated
with P2S5 and the product treated with NaH and PhNCO to give
indolinethionecarboxamide II which had IC50 of 2μM against
epidermal growth factor mediated mitogenisis.

IT 156136-06-0P 156136-08-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as protein tyrosine kinase inhibitor)

RN 156136-06-0 HCAPLUS

CN 1H-Indole-3-carboxamide, 5-hydroxy-1-methyl-2-[[1-methyl-3-[(phenylamino)carbonyl]-1H-indol-2-yl]dithio]-N-phenyl- (9CI) (CA INDEX NAME)

RN 156136-08-2 HCAPLUS

CN 1H-Indole-3-carboxamide, 6-hydroxy-1-methyl-2-[[1-methyl-3-[(phenylamino)carbonyl]-1H-indol-2-yl]dithio]-N-phenyl- (9CI) (CA INDEX NAME)

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FILE COVERS 1907-1966

L8

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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1040261 SEA FILE=REGISTRY ABB=ON PLU=ON · NC4-C6/ES

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L12	250	SEA	FILE=REGISTRY SUB=L8 SSS FUL L10
L25	2	SEA	FILE=CAOLD ABB=ON PLU=ON L12
L8	1040261	SEA	FILE=REGISTRY ABB=ON PLU=ON NC4-C6/ES
L10		STR	
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L25	2	SEA	FILE=CAOLD ABB=ON PLU=ON L12
L26	10594	SEA	FILE=CAOLD ABB=ON PLU=ON SKIN OR ?DERM?
L27	. 0	SEA	FILE=CAOLD ABB=ON PLU=ON L25 AND L26

=> d iall hitstr 125 1-2

L25 ANSWER 1 OF 2 CAOLD COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: CA56:10075b CAOLD

TITLE: quinones - (XXXVII) condensation of p-benzoquinone with

anilides of β -aminocrotonic acids

AUTHOR NAME: Grinev, A. N.; Ermakova, V. N.; Mel'nikova, I. A.;

Terent'ev, A. P.

INDEX TERM: 636-41-9 930-87-0 936-12-9 1003-29-8 1072-83-9

2199-49-7 2703-17-5 18519-26-1 91556-85-3 92966-88-6

93331-34-1 93648-69-2 94298-69-8 95021-07-1

95426-91-8 95433-09-3 100324-49-0

IT 93331-34-1

RN 93331-34-1 CAOLD

CN Indole-3-carboxanilide, 5-hydroxy-1,2-dimethyl- (7CI) (CA INDEX NAME)

L25 ANSWER 2 OF 2 CAOLD COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: CA54:16652h CAOLD

TITLE: highly potent antimetabolites of serotonin with little

serotoninlike action

AUTHOR NAME: Woolley, Dilworth W.

INDEX TERM: 2016-57-1 102240-53-9 102458-33-3 102948-03-8

102951-82-6 103211-57-0 103389-62-4 104339-40-4 104397-63-9

104399-16-8 106166-19-2 109018-10-2 122702-01-6

IT 102948-03-8

RN 102948-03-8 CAOLD

CN Phthalamic acid, N-[2-(1-benzyl-5-hydroxy-2-methylindol-3-yl)ethyl]- (6CI)

(CA INDEX NAME)

$$CH_2-Ph$$
 N
 Me
 CH_2-CH_2-NH-C
 HO_2C

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=> d his full
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(FILE 'HOME' ENTERED AT 13:37:29 ON 22 SEP 2006)

FILE 'CAPLUS' ENTERED AT 13:38:43 ON 22 SEP 2006 E US2003-611649/APPS

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D IALL
SEL RN

FILE 'REGISTRY' ENTERED AT 13:39:33 ON 22 SEP 2006

L2 4 SEA ABB=ON PLU=ON (153259-65-5/BI OR 257892-33-4/BI OR 60-92-4/BI OR 9036-21-9/BI)
D SCAN

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 22 SEP 2006

E RUNDFELDT C?/AU

E KIETZMANN M?/AU

E KIETZMANN M/AU

E HOPPMANN J/AU

E BAUMER W/AU

E BAEUMER W/AU

E KUSS H/AU

E HOFGEN N/AU

13 345 SEA ABB=ON PLU=ON RUNDFELDT C?/AU OR KIETZMANN M?/AU OR HOPPMANN J?/AU OR BAUMER W?/AU OR BAEUMER W?/AU OR KUSS H?/AU OR HOFGEN N?/AU

L4 384518 SEA ABB=ON PLU=ON SKIN OR ?DERM?

L5 48 SEA ABB=ON PLU=ON L3 AND L4

L6 22 SEA ABB=ON PLU=ON TOPICAL AND L5

L*** DEL 26 S L5 NOT L6

FILE 'CAPLUS' ENTERED AT 13:48:55 ON 22 SEP 2006 D QUE L6

D IBIB ED AB L6 1-22

FILE 'ZREGISTRY' ENTERED AT 13:50:59 ON 22 SEP 2006

L7 STR D L7

FILE 'REGISTRY' ENTERED AT 14:38:26 ON 22 SEP 2006

L8 1040261 SEA ABB=ON PLU=ON NC4-C6/ES

L*** DEL 0 S L7 SAMPLE

L9 0 SEA SUB=L8 SSS SAM L7

FILE 'ZREGISTRY' ENTERED AT 14:41:04 ON 22 SEP 2006

L10 STR L7

FILE 'REGISTRY' ENTERED AT 14:47:56 ON 22 SEP 2006

L11 0 SEA SUB=L8 SSS SAM L10

D L10

L12 250 SEA SUB=L8 SSS FUL L10 SAVE L12 KAN649FU/A TEMP

FILE 'CAPLUS' ENTERED AT 14:50:14 ON 22 SEP 2006 L13 122 SEA ABB=ON PLU=ON L12

L15	E C22H14C12FN3O3/MF 1 SEA ABB=ON PLU=ON L2 AND L12 D E C22 H14 CL2 F N3 O3/MF
L16	21 SEA ABB=ON PLU=ON "C22 H14 CL2 F N3 O3"/MF
L17	3 SEA ABB=ON PLU=ON L16 AND L12 . D SCAN
	FILE 'CAPLUS' ENTERED AT 15:01:52 ON 22 SEP 2006 E SKIN+ALL/CT E E25+ALL/CT
	FILE 'HCAPLUS' ENTERED AT 15:04:10 ON 22 SEP 2006
L18	21240 SEA ABB=ON PLU=ON SKIN DISEASES+PFT,NT,OLD/CT
L19	111286 SEA ABB=ON PLU=ON SKIN/CW
L20	2341 SEA ABB=ON PLU=ON INTEGUMENT?
L21	4 SEA ABB=ON PLU=ON L13 AND (L18 OR L19 OR L20)
	D SCAN TI
L22	384518 SEA ABB=ON PLU=ON SKIN OR ?DERM?
L23	17 SEA ABB=ON PLU=ON L13 AND L22
L24	17 SEA ABB=ON PLU=ON L23 OR L21
	D SCAN TI
	FILE 'CAOLD' ENTERED AT 15:07:51 ON 22 SEP 2006
L25	2 SEA ABB=ON PLU=ON L12
	D SCAN

FILE 'REGISTRY' ENTERED AT 15:09:42 ON 22 SEP 2006 D STAT QUE L12

10594 SEA ABB=ON PLU=ON SKIN OR ?DERM?

O SEA ABB=ON PLU=ON L25 AND L26

FILE 'HCAPLUS' ENTERED AT 15:09:59 ON 22 SEP 2006

D QUE NOS L24

D IBIB ED ABS HITSTR L24 1-17

FILE 'CAOLD' ENTERED AT 15:10:52 ON 22 SEP 2006

D STAT QUE NOS L25

D STAT QUE NOS L26

D STAT QUE NOS L27

D IALL HITSTR L25 1-2

FILE HOME

L26

L27

FILE CAPLUS

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FILE COVERS 1907 - 22 Sep 2006 VOL 145 ISS 14 FILE LAST UPDATED: 21 Sep 2006 (20060921/ED)

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FILE ZREGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2 DICTIONARY FILE UPDATES: 21 SEP 2006 HIGHEST RN 908228-18-2

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FILE HCAPLUS

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FILE COVERS 1907 - 22 Sep 2006 VOL 145 ISS 14

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FILE LAST UPDATED: 21 Sep 2006 (20060921/ED)

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FILE CAOLD

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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